Technical Note TN-774

Upgrading the Tait Orca Vehicle Kit to support "Green" Chassis Tait Orca Radios

21 May 2003 (Updated 31 October 2003)

Applicability	This Technical Note applies to any Tait Orca vehicle kit (TOPA-VK-002) that is to support Tait Orca radios that have been upgraded to the 'Green' chassis (Bow Tie design). Refer to TN-752 for instructions on how to upgrade a Tait Orca 5000 radio to the 'Green' chassis.
	After upgrading, the vehicle kit will support both 'Green' chassis and non-green chassis Tait Orca radios.
	Note: The TOPA-VK-002A is the updated version of the vehicle kit and supports the 'Green' chassis.

1. Upgrade Tool Requirements

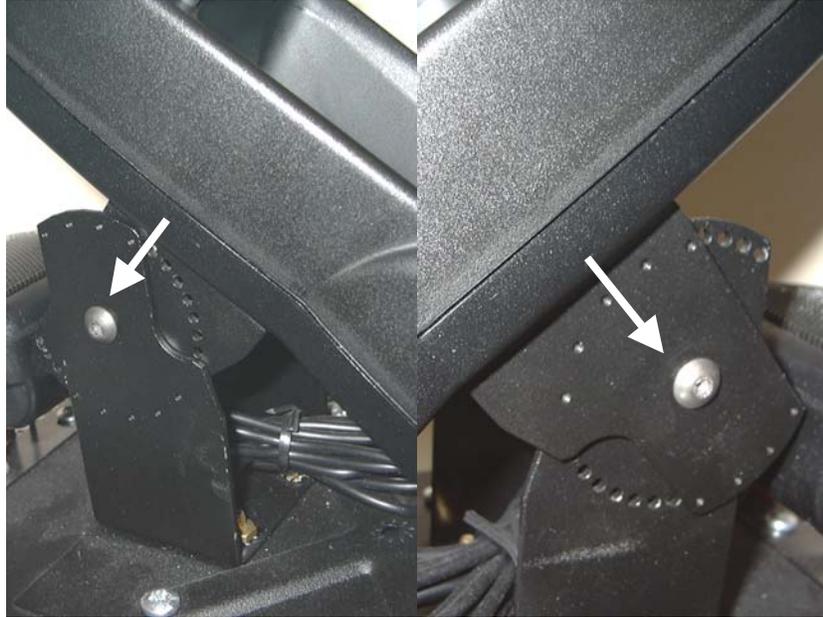|	
Tools	- Torx 10 driver bit
	- Torx Driver that can be set to 6 inch / pounds
	- M3 and M4 Allen keys
	- Flat bladed screw driver, with thin shaft
	- Spanner for M5 nuts
Parts	- 305-00008-02 Quarter Turn Moulding – Green
	- 305-00009-02 Peg Moulding – Green
Work Area	- Statically (ESD) safe with static safe matting and heel and / or wrist straps as a minimum requirement

2. Upgrade Instructions

Steps

1) If the vehicle kit is mounted in a car, it will be necessary to remove it from the mounting bracket. Unscrew the two screws, one on either side of the mounting bracket, with an M3 Allen key.
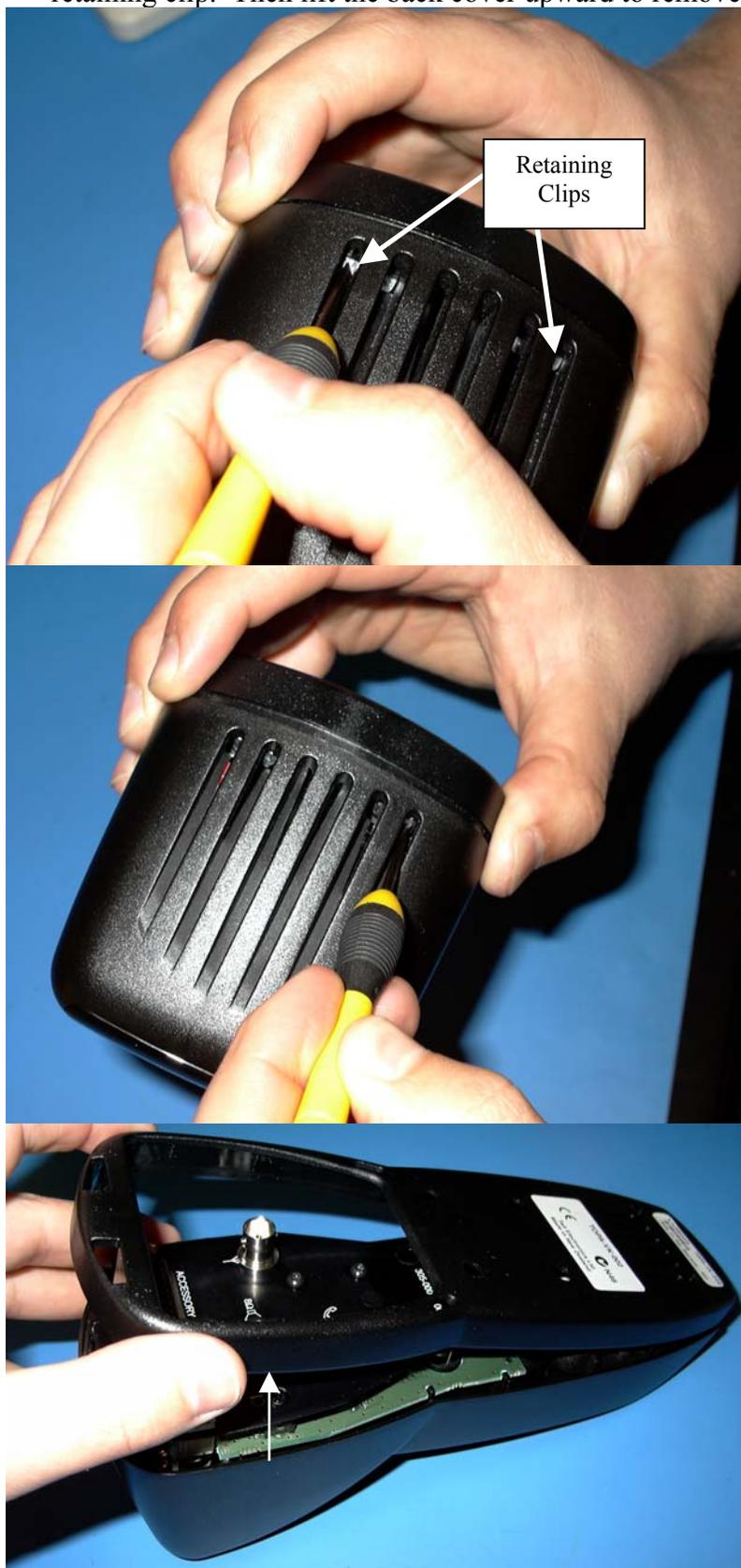

2) Next use an M4 Allen key to remove the four screws that hold the bracket to the vehicle kit. If necessary, use an M5 nut spanner to hold the nut steady whilst unscrewing.
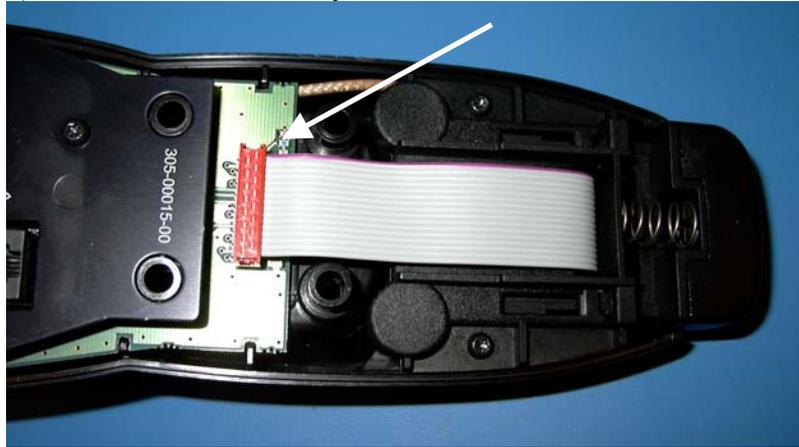
Steps (cont.)

3) Using the end of a flat head screwdriver. Apply pressure to one of the retaining clips. With the other hand gently pull the back cover away. Repeat process for other retaining clip. Then lift the back cover upward to remove.

Retaining Clips

Steps (cont.)

4) Disconnect the 16-way micro-match ribbon cable.

5) Unscrew the two KC30x10 screws with a Torx 10 driver.

Steps (cont.)

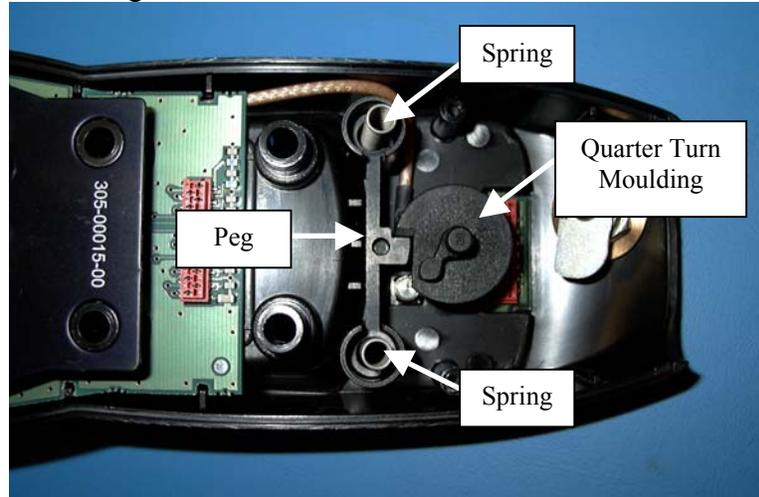6) Gently remove the top portion of the trigger assembly by lifting it upward.

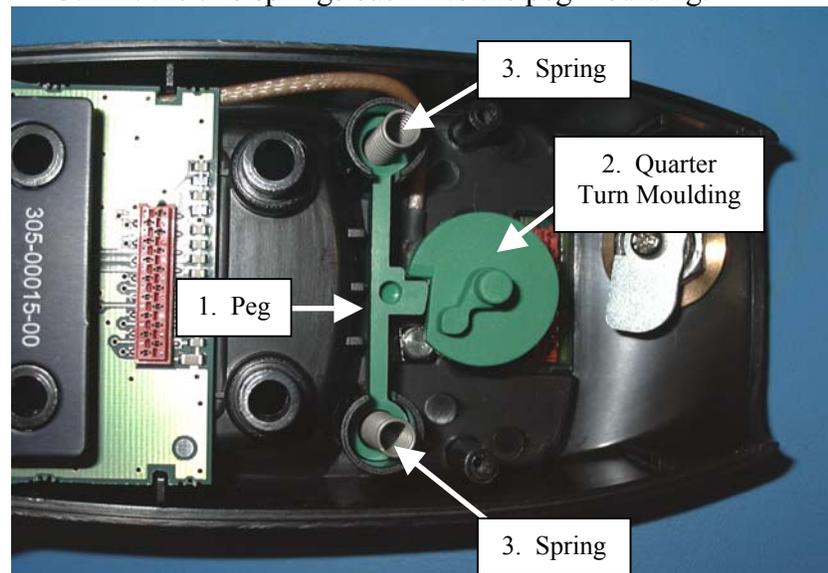7) Disconnect the other end of the 16-way micro-match ribbon cable.

Steps (cont.)

8) Remove the two springs, the peg moulding and quarter turn moulding.

Spring

Quarter Turn Moulding

Peg

Spring

9) Fit the new parts in the follow order:
1. Fit the new peg moulding into the front panel.
2. Insert the quarter turn moulding and rotate it until the peg moulding prevents it from turning (as shown below).
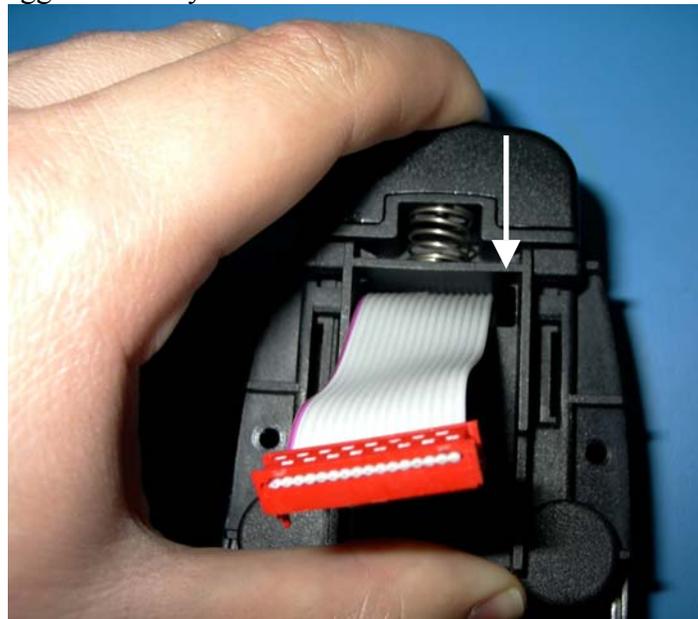3. Fit the two springs back into the peg moulding.

3. Spring

2. Quarter Turn Moulding

1. Peg

3. Spring

Steps (cont.)

10) Reconnect the 16-way micro-match ribbon cable.

11) Hold down on the top housing and spring whilst refitting the trigger assembly cover.

Steps (cont.)

12) Push firmly down on the rear of the trigger assembly cover to lock it in place.
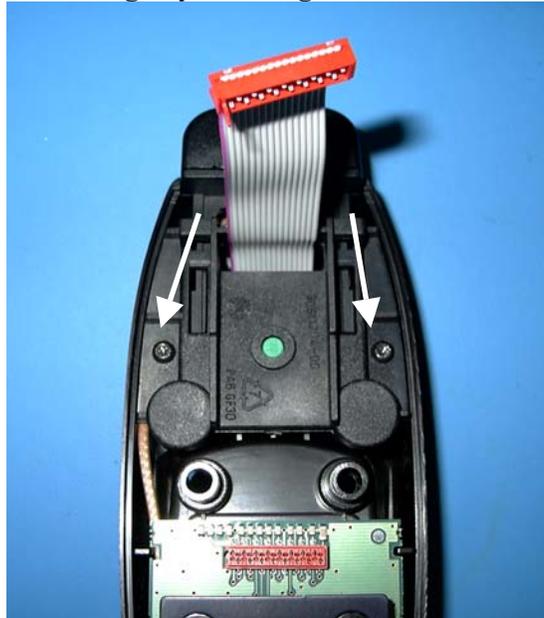
Steps (cont.)   13) Test the locking mechanism works.

Push downward on peg.

Top trigger housing will pop upward

2. Peg will pop outward
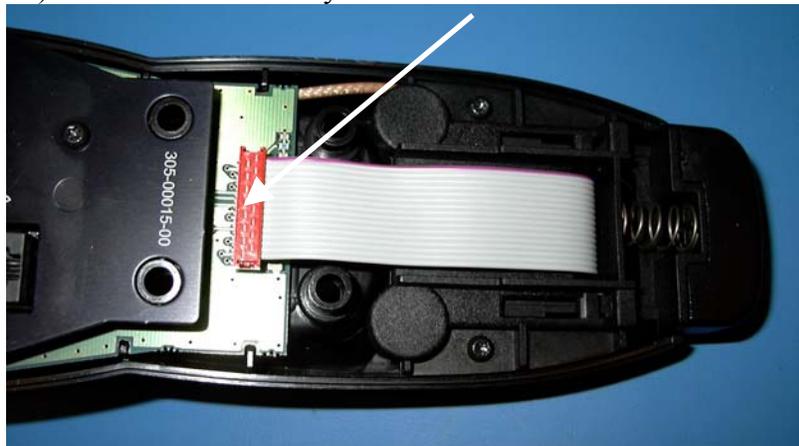
1. Push down top trigger housing.

Steps (cont.)

14) Refit the two KC30x10 screws with a Torx 10 driver. These should be tightened to a torque setting of 6 inch / pounds. **When tightening be careful not to strip the threads in the plastic mouldings by exerting too much force.**

15) Reconnect the 16-way micro-match ribbon cable.

Steps (cont.)

16) Refit the back cover. Line up the end nearest the top trigger assembly, and then push the other end downward until the retaining clips click into place.

17) Upgrade complete. If refitting to vehicle required, follow Steps 1 and 2 in reverse order.

Compliance	None
CSO Instruction	Please ensure all those who are to undertake a vehicle kit upgrade follow these instructions.

3.   Issuing authority

Name and position of issuing officer	Tim Lummis Technical Support Engineer		
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